

FIG. 1

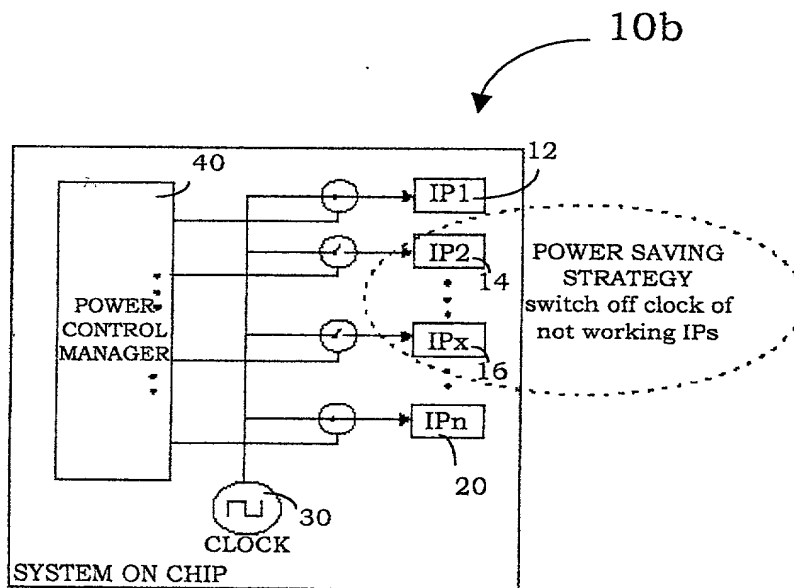


FIG. 2

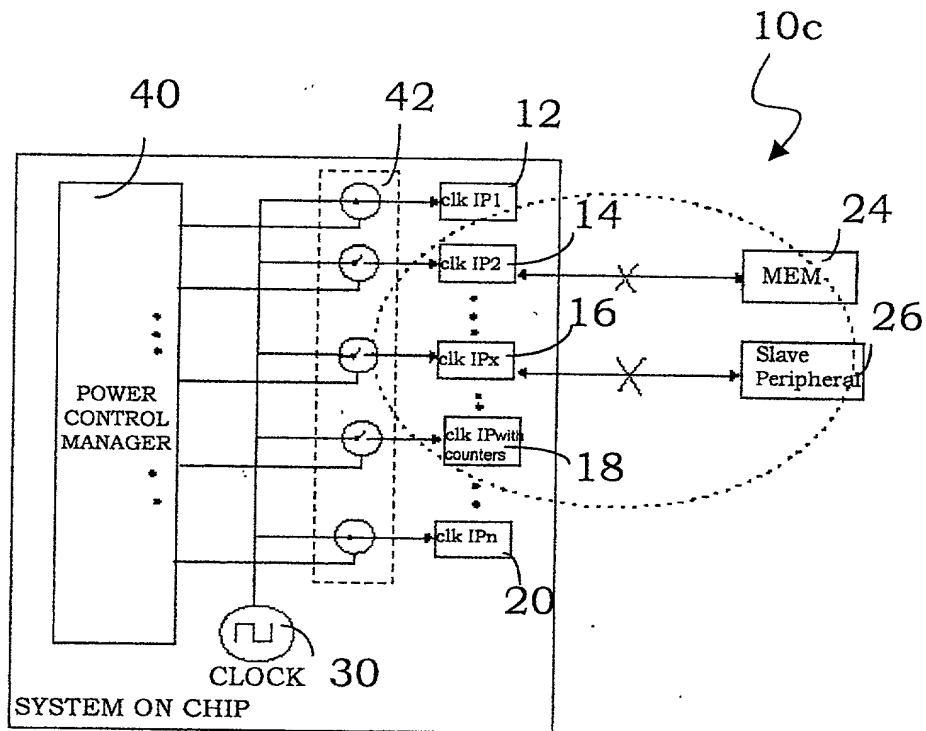


FIG. 3

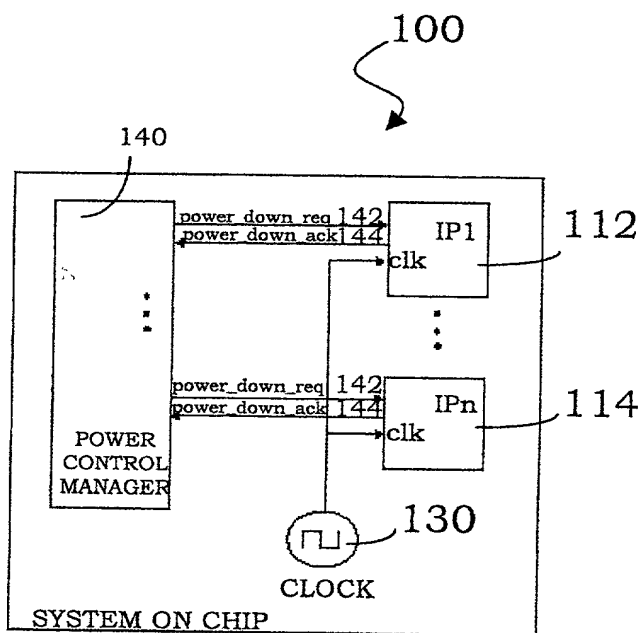


FIG. 4

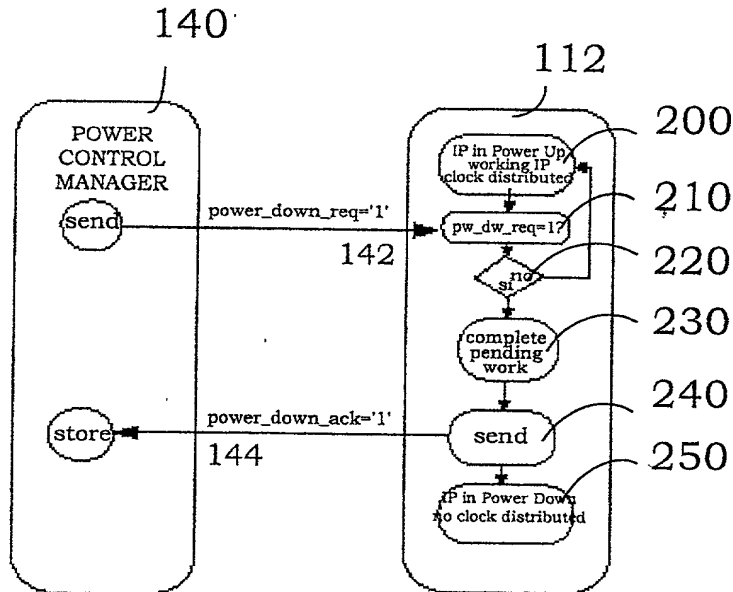


FIG. 5

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Power Down Manager:

sent to the IP the `power_down_req` signal set to '1';

IP:

IF `power_down_req` is asserted (`'1'`):

complete its pending work;

set `power_down_ack` to '1';

stop its own clock => IP halted;

else

normal work;

Power Down Manager:

Stores the value of `power_down_ack` to allow visibility of IP status (power on/off);

FIG. 6

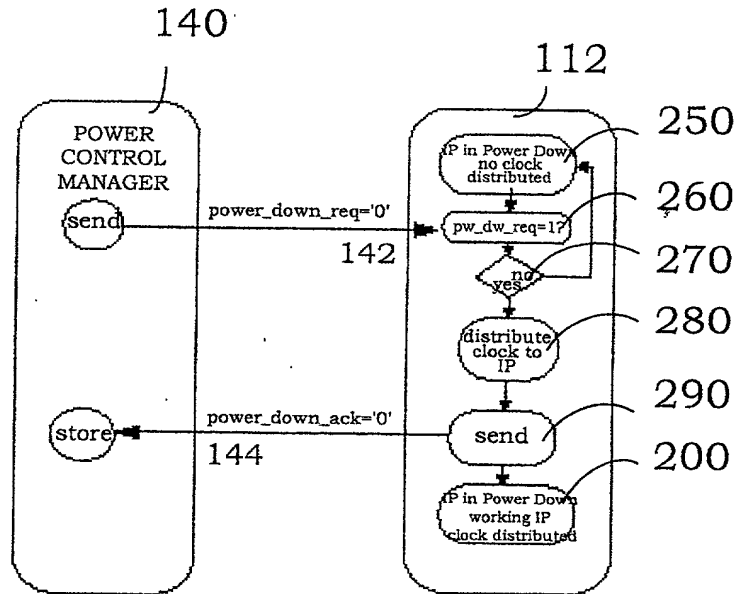


FIG. 7

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Power Down Manager:

sent to the IP the power\_down\_req signal set to '0';

IP:

IF power\_down\_req is de\_asserted (='0'):

restarts its own clock;

set power\_down\_ack = '0';

restart to work;

else

no clock distributed to IP => IP halted;

Power Down Manager:

Stores the value of power\_down\_ack to allow visibility of IP status (power on/off);

FIG. 8

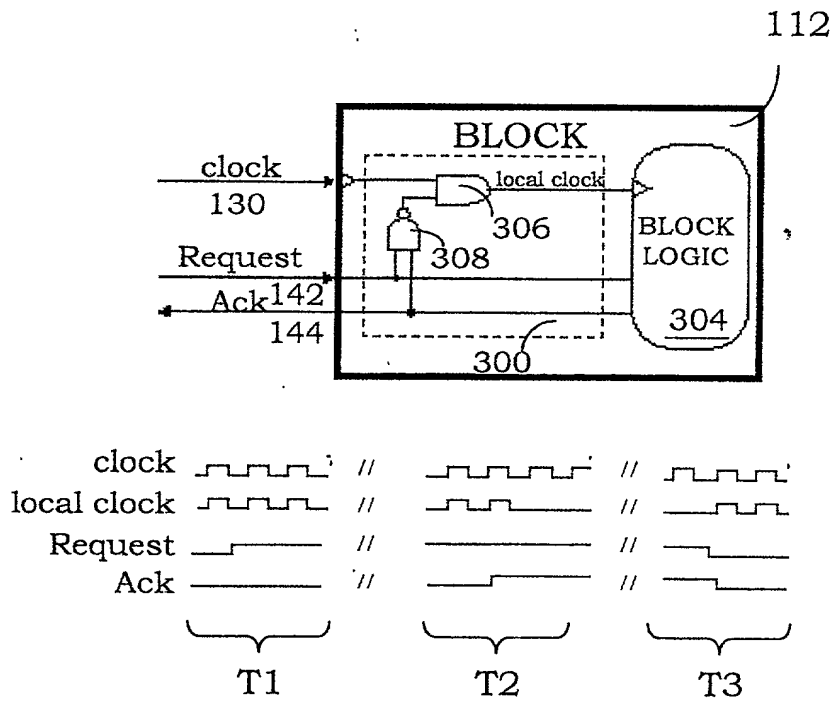


FIG. 9

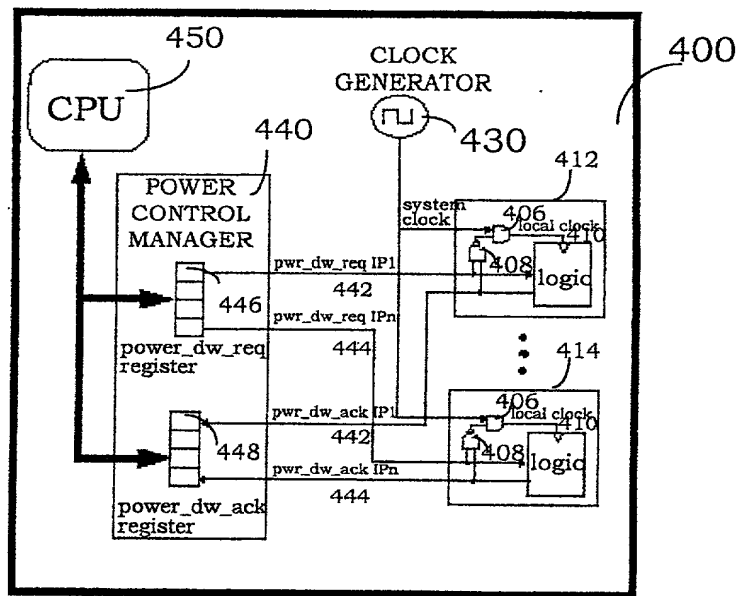


FIG. 10